

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
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PATENT APPLICATION
ATTORNEY DOCKET NO. 200312751-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Manish Sharma

Confirmation No.:

Application No.:

Examiner:

Filing Date: Jan. 15, 2004

Group Art Unit:

Title: NEW METHOD OF MAKING TOROIDAL MRAM CELLS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97(c) together with either a:
 Statement under 37 CFR 1.97(e), or
 a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97 (d) together with a:
 Statement under 37 CFR 1.97(e)(1) or (2), and
 a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **ER768482804US**

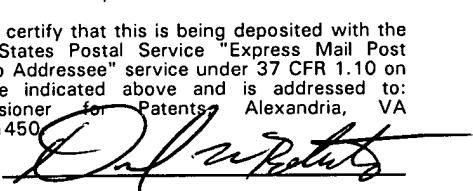
Respectfully submitted,

Date of Deposit Jan. 15, 2004

Manish Sharma

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450

By


Daniel W. Roberts

Attorney/Agent for Applicant(s)
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By

Typed Name: **Daniel W. Roberts**

Date: **Jan. 15, 2004**

PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449		ATTY. DOCKET NO. 200312751-1	APPLICATION NO.	CONFIRMATION NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Manish Sharma		
(Use several sheets if necessary)		FILING DATE 01/15/2004	GROUP	

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
1A	5,661,062	Aug 26, 1997	Prinz	
1B	5,541,868	Jul. 30, 1996	Prinz	
1C	5,477,482	Dec. 19, 1995	Prinz	
1D				
1E				
1F				
1G				
1H				
1I				
1J				
1K				

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M					
1N					
1O					
1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Zhu, Jian-Gang et al., "Ultrahigh Density Vertical Magnetoresistive Random Access Memory (invited)," Journal of Applied Physics, May 2000, Vol. 87, Number 9, Pages 6668-6673
1R	
1S	

EXAMINER

DATE CONSIDERED